MA

# FOREST PEST MANUAL WORKSHEET

**Damage (circle) 1/**

- **Defoliation**
- **Mortality**
- **Dieback/Decline**
- **Branch Breakage**
- **Mainstem** Broken or Uprooted
- **Discoloration**
- **Present** but Below Threshold
- **Healthy** (optional)

**Forest Type (circle)**

- White/red/jack pine
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- Oak/pine
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

**Principal Host**

SUGAR MAPLE

**Secondary Host**

**Tertiary Host**

**Survey Type (circle)**

- Aerial sketchmapping
- Ground
- Photo
- Other
- Trapping

**Damage Causing Agent**

PEAR THRIPS

**Scientific Name** TAENIOTHRIPS INCONSEQUENS

| County(s) Affected | Damage Acres or No. of Trees | Class 2/ |
|---|---|---|
| BERKSHIRE | | |
| HAMDEN | | |
| HAMPSHIRE | | |
| FRANKLIN | | |
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**Comments (trend/treatment)**

POPULATION INCREASING BUT NO DAMAGE NOTED

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# FOREST HEALTH WORKSHEET

**Damage (circle) 1/**

- **Defoliation**
- **Mortality**
- **Dieback/Decline**
- **Branch Breakage**
- **Mainstem** Broken or Uprooted
- **Discoloration**
- **Present** but Below Threshold
- **Healthy** (optional)

**Forest Type (circle)**

- **White/red/jack pine**
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- Oak/pine
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

**Principal Host**

PITCH PINE

**Secondary Host**

**Tertiary Host**

**Survey Type (circle)**

- **Aerial sketchmapping**
- Ground
- Photo
- Other
- Trapping

**Damage Causing Agent**

PINE LOOPER

**Scientific Name** LAMBDINA ATHASARIA Pellucidaria

| County(s) Affected | Damage Acres or No. of Trees | Class 2/ |
|---|---|---|
| PLYMOUTH | 61 | 4 |
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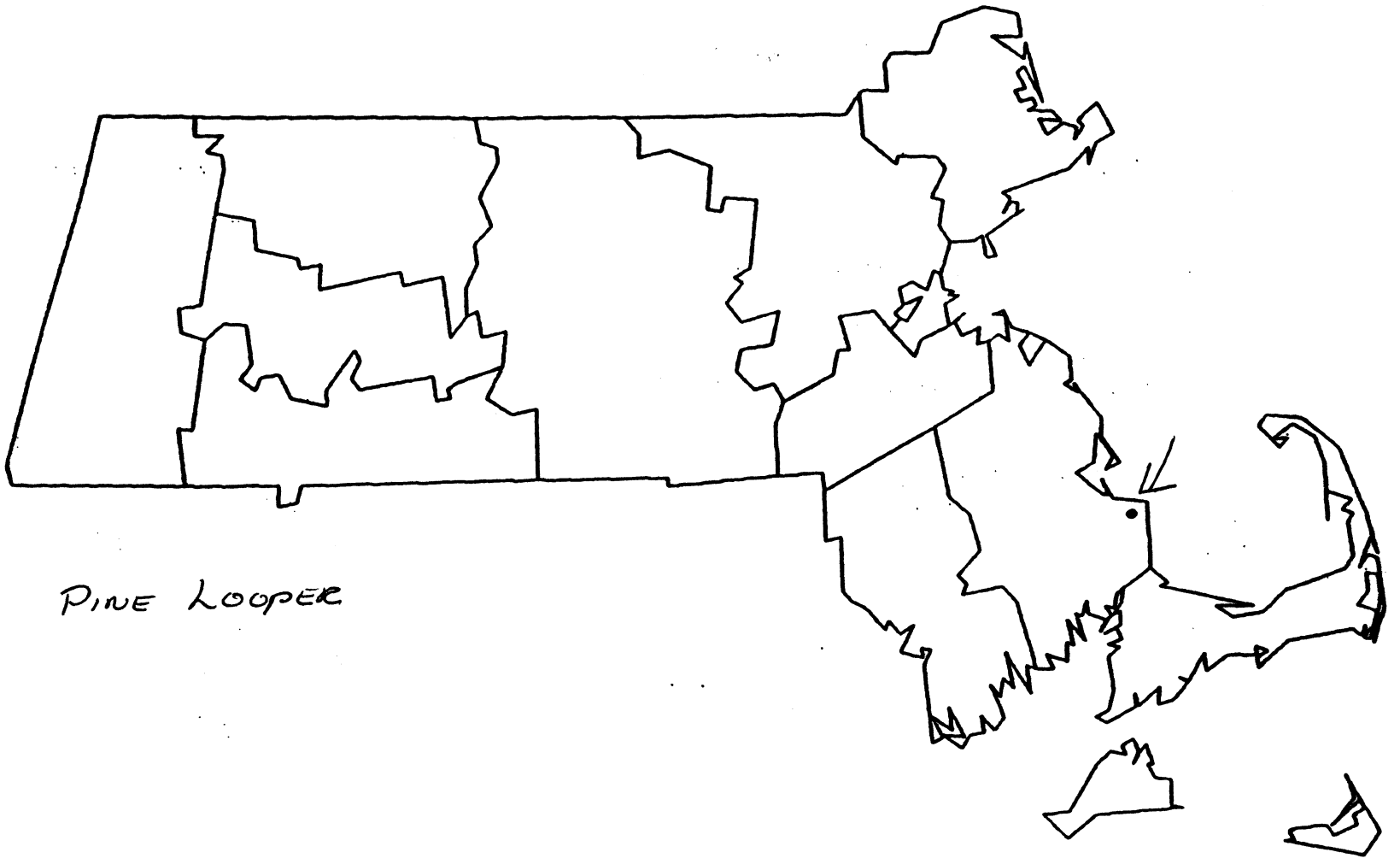
**Comments (trend/treatment)**

# MASSACHUSETTS



Pine Looper

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# FOREST HEALTH WORKSHEET

Damage (circle) 1/

- Defoliation
- Mortality
- Dieback/Decline
- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

Forest Type (circle)

- White/red/jack pine
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- Oak/pine
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

Principal Host: RED SPRUCE

Secondary Host:

Tertiary Host:

Survey Type (circle)

- Aerial sketchmapping
- Ground
- Photo
- Other
- Trapping

Damage Causing Agent: WINTER INJURY

Scientific Name:

| County(s) Affected | Damage Acres or No. of Trees | Class 2/ |
|---|---|---|
| BERKSHIRE | 1,501 | 3 |
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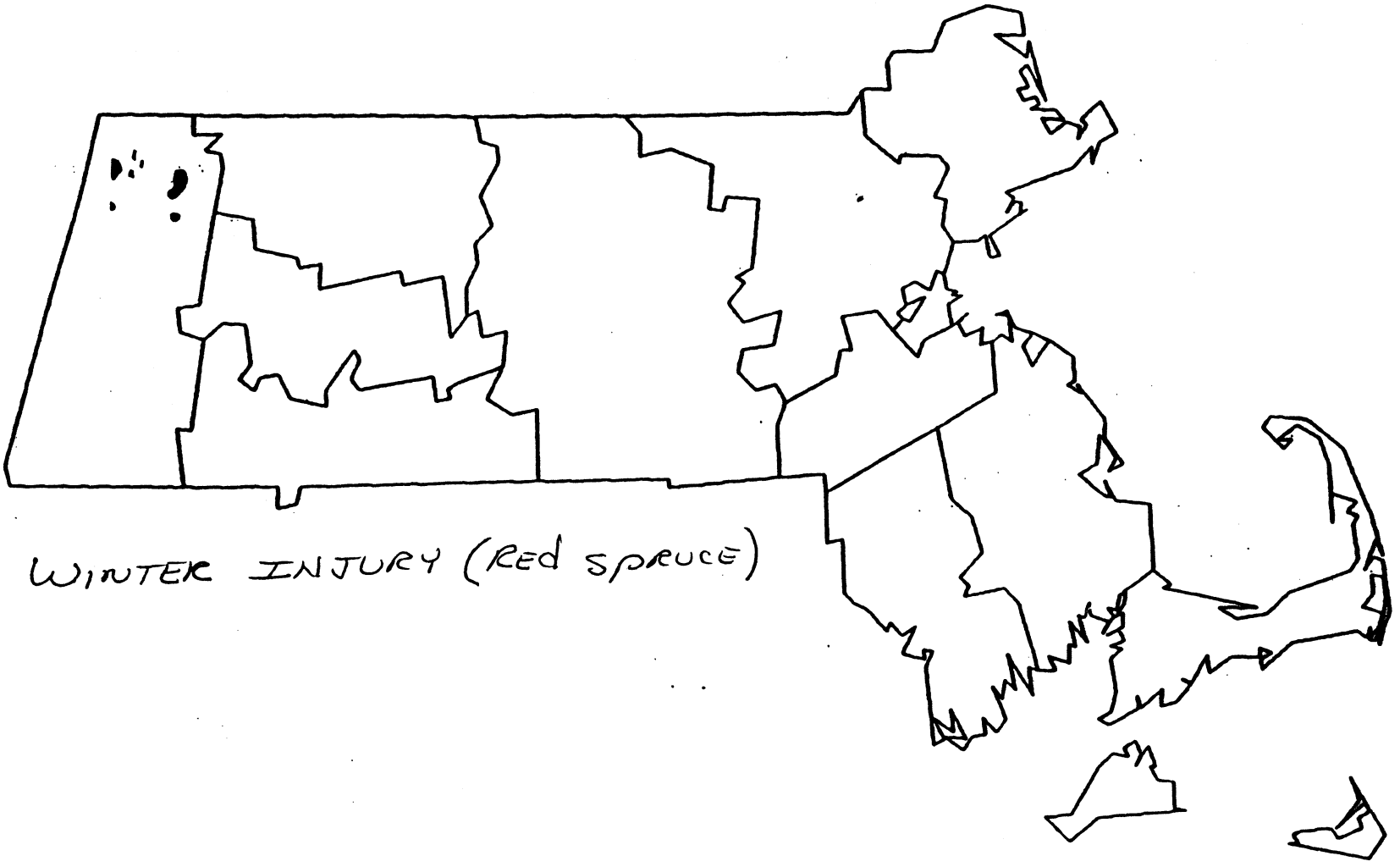
Comments (trend/treatment)

# MASSACHUSETTS



WINTER INJURY (Red Spruce)

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# FOREST PEST WORKSHEET

**Damage (circle) 1/**

- Defoliation
- Mortality
- Dieback/Decline
- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

**Forest Type (circle)**

- White/red/jack pine
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- Oak/pine
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

**Principal Host**: Pitch Pine

**Secondary Host**:

**Tertiary Host**:

**Survey Type (circle)**

- Aerial sketchmapping
- Ground
- Photo
- Other
- Trapping

**Damage Causing Agent**: Pine Looper

**Scientific Name**: Lambdina Athasaria Pellucidaria

| County(s) Affected | Damage Acres or No. of Trees | Class 2/ |
|---|---|---|
| Plymouth | 998 | 4 |
| | | |
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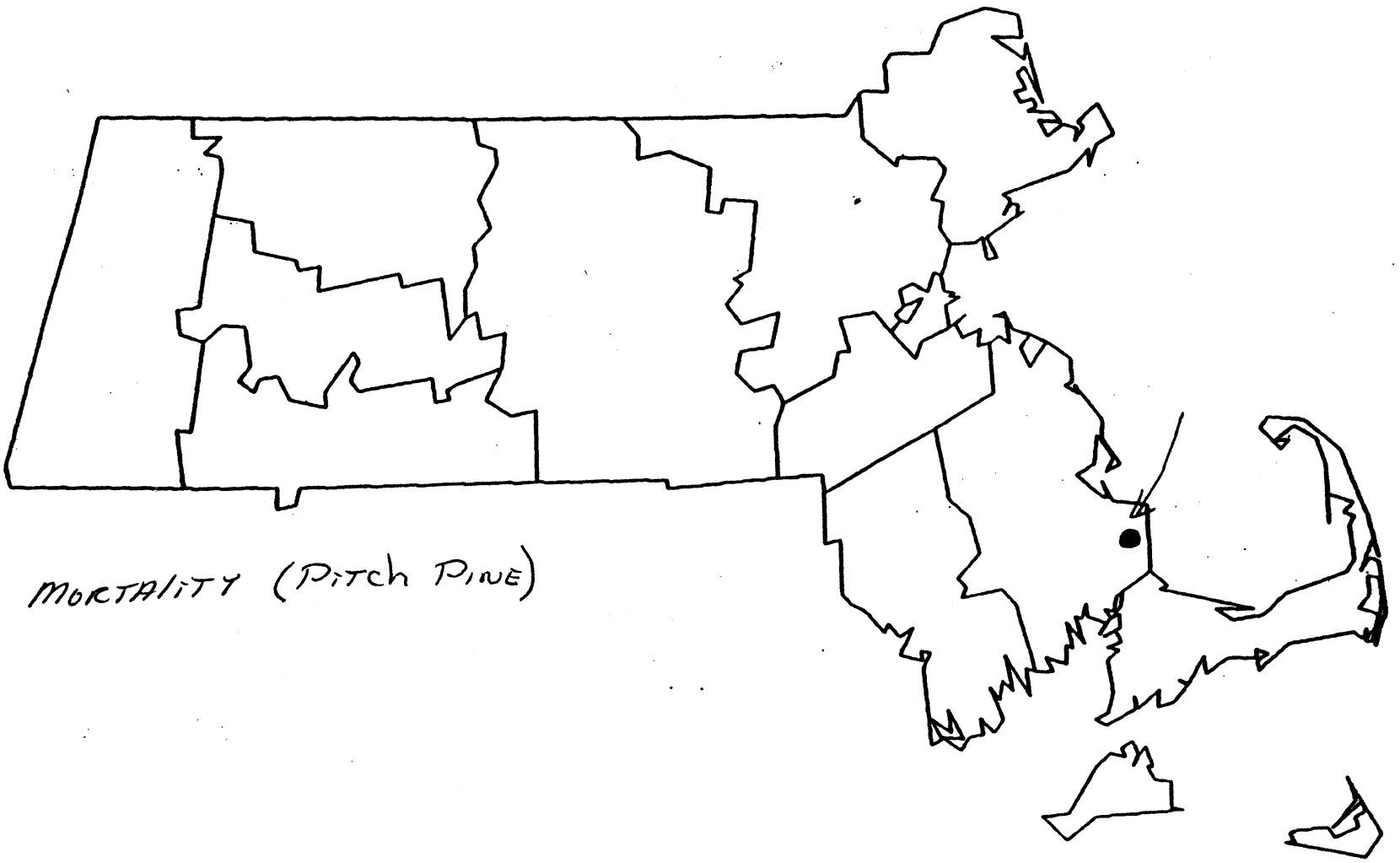
**Comments (trend/treatment)**

# MASSACHUSETTS



MORTALITY (PITCH PINE)

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# FOREST HEALTH WORKSHEET

(circle) 1/

- Defoliation
- Mortality
- Dieback/Decline
- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

Forest Type (circle)

- White/red/jack pine
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- Oak/pine
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

Principal Host: AMERICAN LARCH

Secondary Host:

Tertiary Host:

Survey Type (circle)

- Aerial sketchmapping
- Ground
- Photo
- Other
- Trapping

Damage Causing Agent: LARCH SAWFLY

Scientific Name:

| County(s) Affected | Damage Acres or No. of Trees | Class 2/ |
|---|---|---|
| WORCESTER | 25 ACRES | 4 |
| | | |
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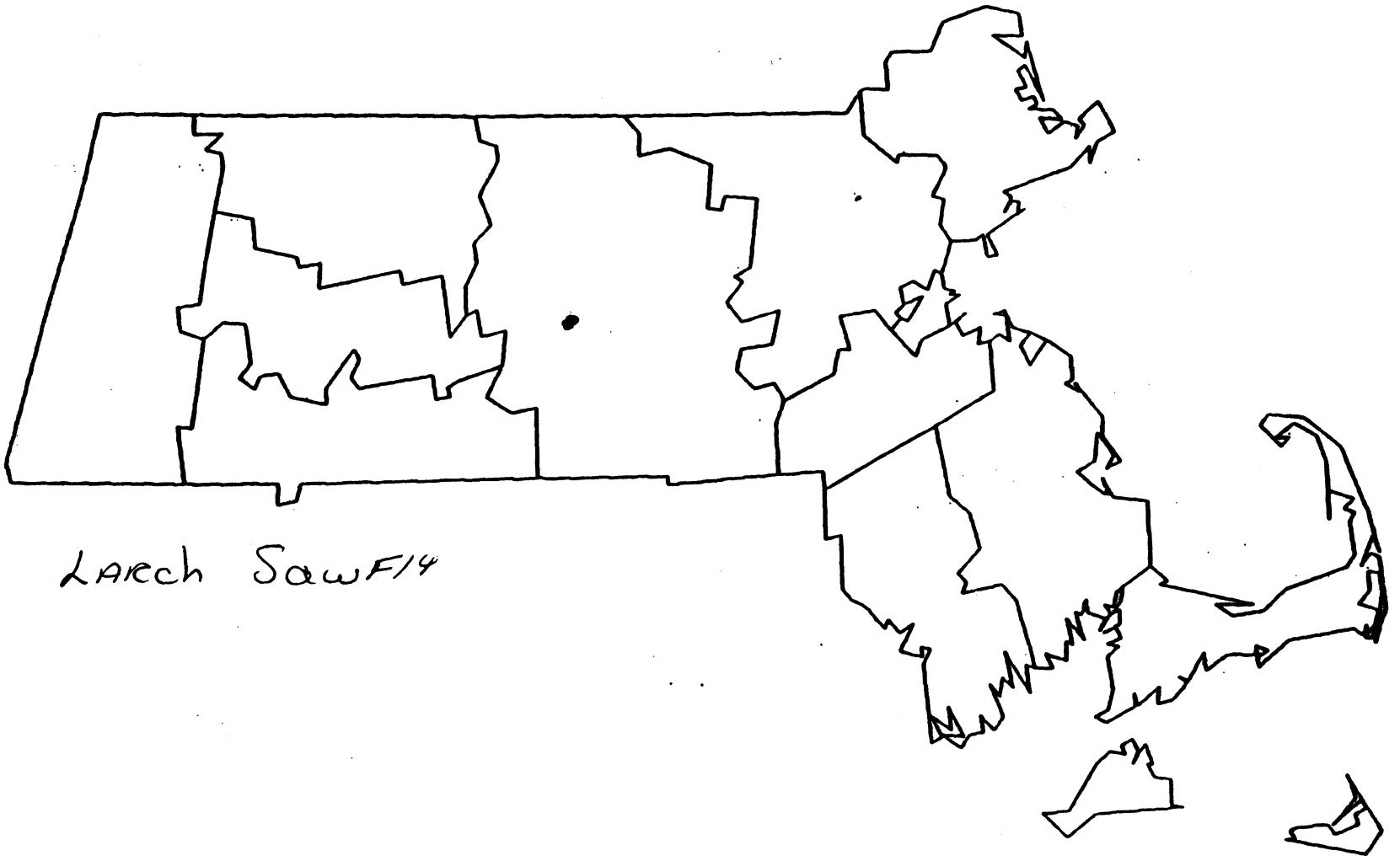
Comments (trend/treatment)

# MASSACHUSETTS



Larch Sawfly

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# FOREST PEST WORKSHEET

(circle) 1/

- Defoliation
- Mortality
- Dieback/Decline
- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

Forest Type (circle)

- White/red/jack pine
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- Oak/pine
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

Principal Host: RED / WHITE OAK

Secondary Host:

Tertiary Host:

Survey Type (circle)

- Aerial sketchmapping
- Ground
- Photo
- Other
- Trapping

Damage Causing Agent: GYPSY MOTH

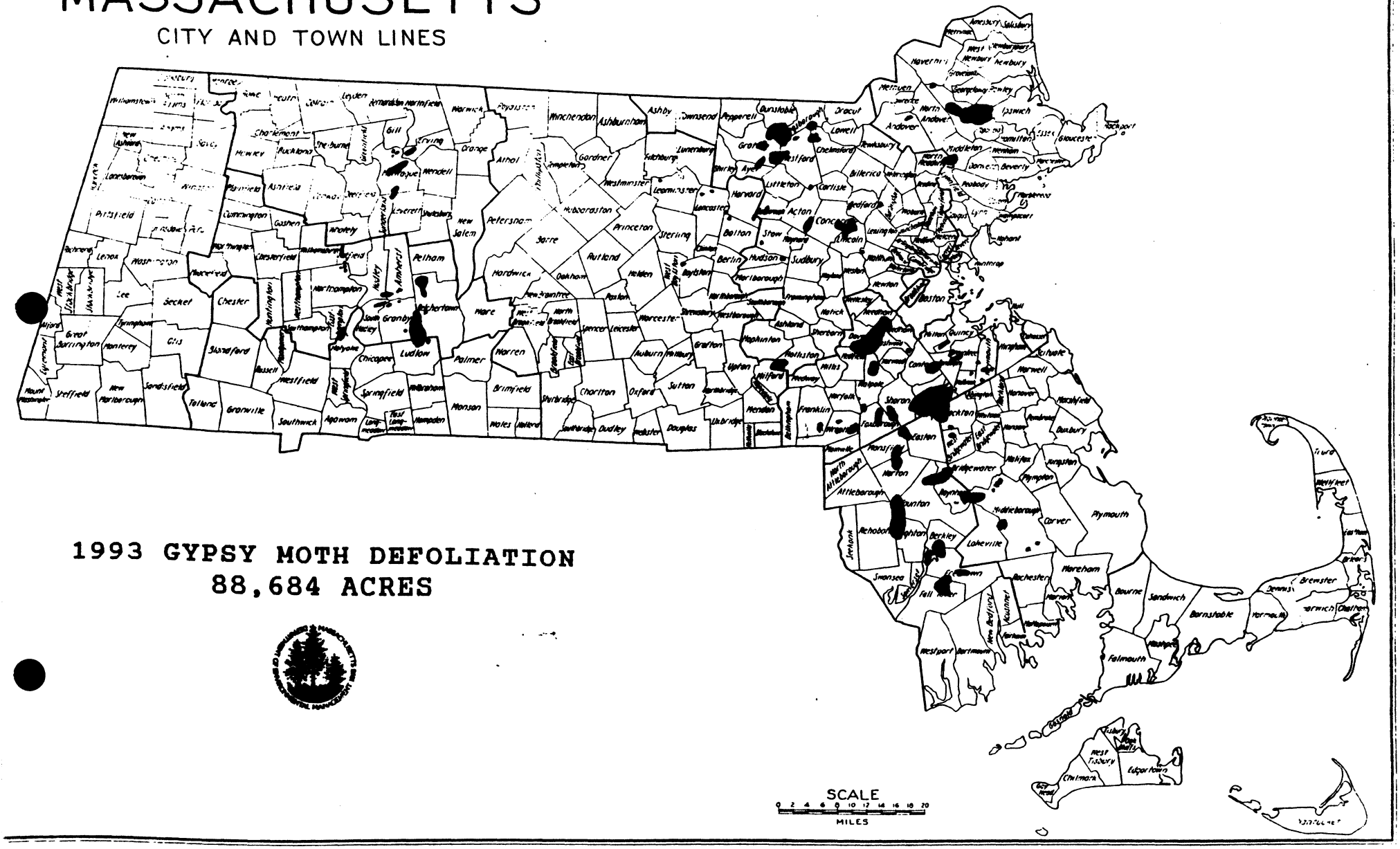
Scientific Name: LYMANTRIA DISPAR

| County(s) Affected | Damage Acres or No. of Trees | Class 2/ |
|---|---|---|
| BRISTOL | 22,758 | 4 |
| ESSEX | 8,527 | 4 |
| FRANKLIN | 2,520 | 3 |
| HAMPDEN | 3,631 | 3 |
| HAMPSHIRE | 8,863 | 3 |
| MIDDLESEX | 11,611 | 4 |
| NORFOLK | 24,069 | 4 |
| PLYMOUTH | 5,084 | 2 |
| WORCESTER | 1,621 | 2 |

Comments (trend/treatment)

# MASSACHUSETTS

## CITY AND TOWN LINES




**1993 GYPSY MOTH DEFOLIATION**
**88,684 ACRES**

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# FOREST HEALTH WORKSHEET

Damage (circle) 1/

- Defoliation
- Mortality
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- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

Forest Type (circle)

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- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

Principal Host: EASTERN HEMLOCK

Secondary Host:

Tertiary Host:

Survey Type (circle)

- Aerial sketchmapping
- Ground
- Photo
- Other
- Trapping

Damage Causing Agent: Hemlock Wooly Adelgid

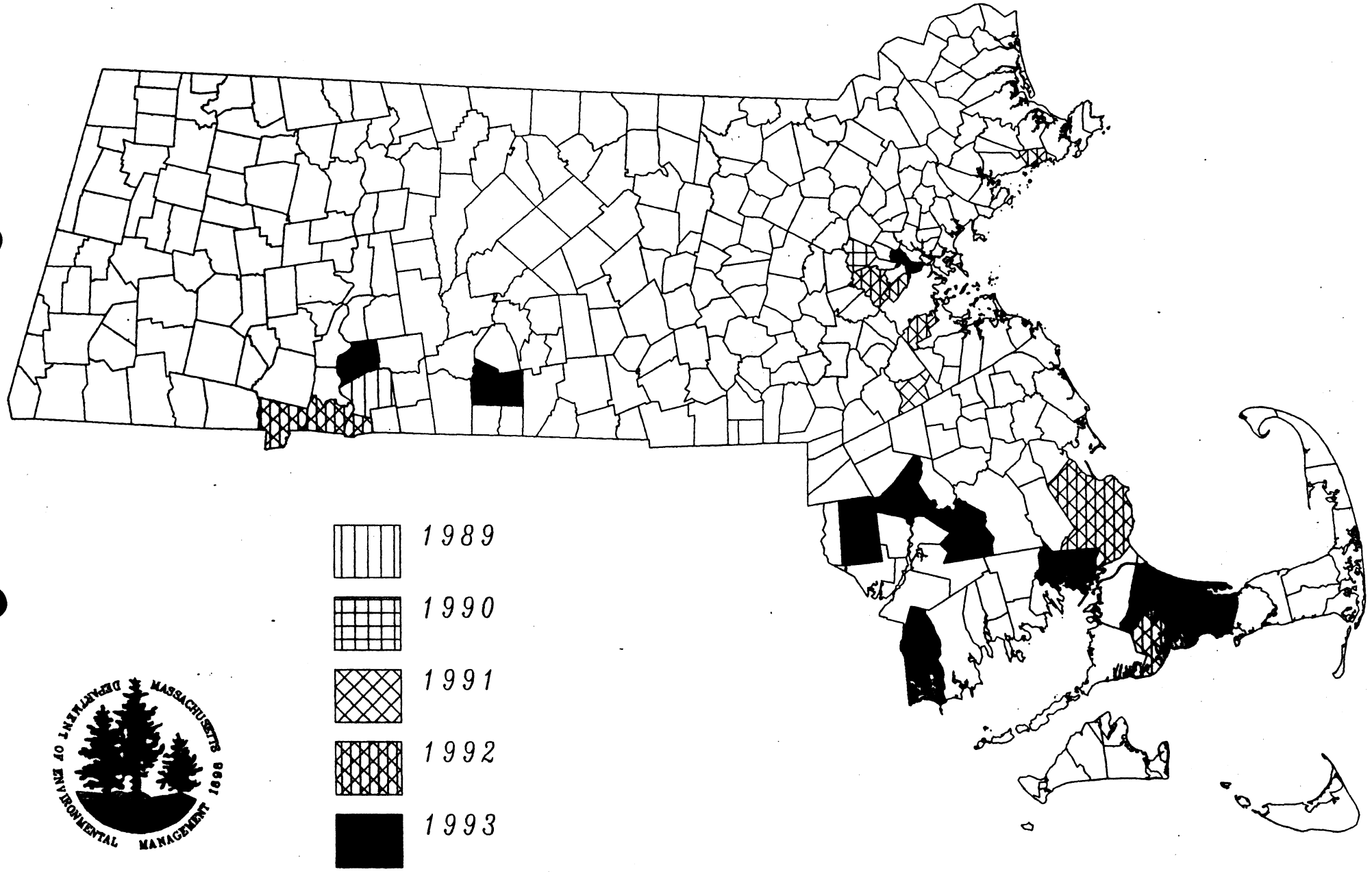
Scientific Name: Adelges TSUGAE

| County(s) Affected | Damage Acres or No. of Trees | Class 2/ |
|---|---|---|
| BARNSTABLE | | |
| BRISTOL | | |
| HAMPDEN | | |
| MIDDLESEX | | |
| PLYMOUTH | | |
| | | |
| | | |
| | | |
| | | |

Comments (trend/treatment)

11 NEW COMMUNITIES INFESTED!
LAKEVILLE, CHICOPEE, SANDWICH, BRIMFIELD, TAUNTON
WAREHAM, CAMBRIDGE, WESTPORT, REHOBOTH, RUSSELL
BARNSTABLE

# HEMLOCK WOOLLY ADELGID INFESTATIONS



MA

# FOREST PEST WORKSHEET

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- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

Principal Host: PITCH PINE

Secondary Host:

Tertiary Host:

Survey Type (circle)

- Aerial sketchmapping
- Ground
- Photo
- Other
- Trapping

Damage Causing Agent: SALT SPRAY INJURY

Scientific Name:

| County(s) Affected | Damage Acres or No. of Trees | Class 2/ |
|---|---|---|
| BARNSTABLE | 6953 | 4 |

Comments (trend/treatment)

# MASSACHUSETTS